

C. & G. SURVEY,
LIBRARY AND ARCHIVES
NOV 20 1913
Acc. No.

3542

Diag. Cht. Nos. 8201-2 & 8252-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3542*

LOCALITY:

Southeast Alaska
Stephens Passage
Gambier Island
Chamberlain Bay

1913

CHIEF OF PARTY:

R. B. Derickson

11-4845

3542

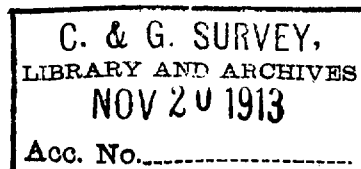
3542

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET OF

GAMBIER BAY, S.E. ALASKA.

STEAMER COSMOS September 1913.

Scale 1:5000.



The object of this sheet is to show the sounding lines run in connection with the locating of the pinnacle rock upon which the S.S. STATE OF CALIFORNIA is said to have struck, also the soundings made over the S.S. STATE OF CALIFORNIA.

The soundings in general cover an area about half a mile square, and were taken from the deck of the Str. COSMOS with hand lead and wire sounding machine, reading zero when the lead was at the surface of the water. In general the sounding lines were determined by sextant angle positions every 50 to 100 meters.

Individual soundings with sextant positions were made over each of the shoals discovered and at each end of the wreck.

The position and location of the signals were transferred directly from the topographic sheet.

A projection could not be placed on the sheet as the survey was not connected with any known geographic point, but by tangents, cuts, and the general trend of the shoreline gives a very close approximation of its geographic location.

The following is an excerpt from my report of September 10th 1913.

..... The rock or ledge upon which the vessel is said to have struck is in Lat. ^{7°} 28' +600 meters. Long. 133° 56' +632 meters.
RWD 9/90

It is a ledge of round headed rocks and white sand about 50 meters in length extending in a N.W. and S.E. line and having a least depth of

16.1 feet at about Mean Lower Low Water. It is surrounded by depths of 7 to 12 fathoms. 432 meters N.W. of this ledge Lat $5\frac{7}{8}^{\circ} 28'$ +932 meters. Long $133^{\circ} 56'$ +916 meters a round headed pinnacle with a top surface of approximately 10 square meters and a least depth of 15.7 feet ~~about~~ at Mean Low Water was discovered while taking soundings in this vicinity. The rock is surrounded for a short distance by 7 to 10 fathoms.

The wreck of the Steamer STATE OF CALIFORNIA is in Lat. $5\frac{7}{8}^{\circ} 28'$ +648 meters. Long. $133^{\circ} 56'$ +140 meters, berthed in a N.W. and S.E. direction, in depths of 118 and 196 feet at Lower Low Water. Considerable difficulty was experienced in locating the stern of the wreck owing to the great depth and strong currents.

As near as could be ascertained with the hand lead the wreck is resting on her port side, with bow approximately 100 meters from low water line along the beach.....

For the reduction of soundings taken in this vicinity a plane staff was established and the tides read thruout the work. The plane for reducing the soundings was derived by comparative readings with the automatic gauge at Cruz Bay.

The records consist of one vol. Tide Observations. and one Vol. of Sounding Records.

Respectfully submitted,



Chief of Party, C. & G. S.

MKQ
Dec. 6, 1913.

HYDROGRAPHIC SHEET 3542

Gambier Bay, S. E. Alaska, by
Asst. R. B. Derickson in 1913.

TIDES.

	Cannery Dock ft.
Mean lower low water, on plane of reference on staff	6.3
Lowest tide observed " "	2.7
Highest " " " "	26.1
Mean range of tide	13.5

12

H. 3542.

Location of wreck of State of California and the rock she struck. Complete surveys are needed in Gambler Bay and vicinity.

Sheet examined in Div.
of Hyd'y & Ton'y.